AMENDMENTS TO THE CLAIMS

A complete listing of claims is presented below with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing. Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1-41 (Canceled)

42. (Currently Amended) A composition comprising an immunostimulatory nucleic acid, having a sequence including at least the following formula:

5' TCNTX₁X₂CpGX₃X₄-3' 5' TCGTCGTTTTGTCGTTTTGTCGTT 3' (SEQ ID No. 46)

wherein X_1 , X_2 , X_3 , and X_4 are nucleotides, N is a nucleic acid sequence composed of from about 0-25 nucleotides, wherein at least one nucleotide has a phosphate backbone modification, and wherein the nucleic acid has less than or equal to 100 nucleotides, and wherein C is unmethylated.

- 43. (Currently Amended) The composition immunostimulatory nucleic acid of claim 42, wherein at least one nucleotide has a phosphate backbone modification and wherein the phosphate backbone modification is a phosphorothioate or phosphorodithioate modification.
- 44. (Currently Amended) The eomposition immunostimulatory nucleic acid of claim 42, wherein at least one nucleotide has a phosphate backbone modification and wherein the phosphate backbone modification occurs at the 5' end of the nucleic acid.
- 45. (Currently Amended) The eomposition immunostimulatory nucleic acid of claim 42, wherein at least one nucleotide has a phosphate backbone modification and wherein the phosphate backbone modification occurs at the 3' end of the nucleic acid.

46-50. (Canceled Herewith)

- 51. (Currently Amended) The eomposition immunostimulatory nucleic acid of claim 42, wherein the immunostimulatory nucleic acid is 8 to less than 40 nucleotides in length.
 - 52. (Canceled Herewith).
- 53. (Currently Amended) A method for stimulating an immune response, comprising administering to a subject the eomposition immunostimulatory nucleic acid of claim 42 in an effective amount to stimulate an immune response.
- 54. (Previously Presented) The method of claim 53, wherein the subject has or is at risk of developing asthma.
- 55. (Previously Presented) The method of claim 53, wherein the subject has or is at risk of developing allergy.
- 56. (Previously Presented) The method of claim 53, wherein the subject has or is at risk of developing cancer.
- 57. (Previously Presented) The method of claim 53, wherein the subject has or is at risk of developing infectious disease.

- 58. (New) The immunostimulatory nucleic acid of claim 42, wherein the immunostimulatory nucleic acid has a sequence consisting of TCGTCGTTTTGTCGTTTTGTCGTT (SEQ ID No. 46).
- 59. (New) The immunostimulatory nucleic acid of claim 58, wherein each internucleotide linkage has a phosphorothioate modification.
- 60. (New) The immunostimulatory nucleic acid of claim 58, further comprising an antigen.
- 61. (New) The immunostimulatory nucleic acid of claim 60, wherein the antigen is a vaccine and further comprising a conventional adjuvant.
- 62. (New) A method for treating cancer, comprising administering to a subject the immunostimulatory nucleic acid of claim 58 in an effective amount to treat cancer.
- 63. (New) A method for treating cancer, comprising administering to a subject the immunostimulatory nucleic acid of claim 59 in an effective amount to treat cancer.
- 64. (New) The method of claim 62, wherein the immunostimulatory nucleic acid is administered prior to along with or after administration of a chemotherapy.
- 65. (New) The method of claim 63, wherein the immunostimulatory nucleic acid is administered prior to along with or after administration of a chemotherapy.

- 66. (New) The method of claim 62, wherein the immunostimulatory nucleic acid is administered prior to along with or after administration of an immunotherapy.
- 67. (New) The method of claim 63, wherein the immunostimulatory nucleic acid is administered prior to along with or after administration of an immunotherapy.
- 68. (New) The method of claim 62, wherein the immunostimulatory nucleic acid is administered by injection.
- 69. (New) A method for generating an antibody in a mammal, comprising, administering to a mammal an effective amount of the immunostimulatory nucleic acid of claim 58 as an artificial adjuvant and an antigen to generate antibodies in the mammal.
 - 70. (New) The method of claim 69, wherein the mammal is a human.
- 71. (New) The method of claim 69, further comprising isolating the antibody from the mammal.
- 72. (New) The method of claim 62, wherein the cancer is brain, lung, ovary, breast, prostate, or colon cancer
 - 73. (New) The method of claim 62, wherein the cancer is a carcinomas or sarcoma.
- 74. (New) The immunostimulatory nucleic acid of claim 42, wherein the immunostimulatory nucleic acid is formulated as a composition with a pharmaceutically acceptable carrier.